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NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION
DEPARTMENT OF CHEMISTRY

The Fertilizer Inspection
FOR 1915

MADE FOR THE
STATE DEPARTMENT OF AGRICULTURE



BY B. E. CURRY AND T. O. SMITH

NEW HAMPSHIRE COLLEGE
OF
AGRICULTURE AND THE MECHANIC ARTS
DURHAM, N. H.

NEW HAMPSHIRE COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS.

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THE FERTILIZER INSPECTION FOR 1915.

The samples of fertilizer for the 1915 inspection were collected by Mr. A. G. Weeks for the Commissioner of Agriculture, Andrew L. Felker. One hundred and fifty-eight samples were taken and analyzed. This is the smallest number of brands sampled for a number of years. This condition is due to the potash situation which caused a curtailment in the number of brands manufactured.

The amount of potash in many of the brands has been reduced, but for the most part the guaranteed amounts have been found or closely approximated.

The potash situation does not promise any improvement for another year. Unless shipments can be resumed very shortly, practically no potash can be supplied in next year's goods. The owners of hill lands in New Hampshire are particularly fortunate at this time because the potash is the least necessary of the fertilizer constituents.

It might be well to point out here that two brands of fertilizers have been sampled and analyzed this year which do not fall into any class with the other brands. The "New Mineral Plant Food," widely advertised, is not a fertilizer in the commonly accepted sense of the word. It is a ground rock product containing very limited amounts of fertilizer constituents, all of which are practically insoluble. "Prepared Humus" is another product which sells at a relatively high price and contains relatively small amounts of soluble fertilizer constituents. This product appears to be little more than peat which has been dried and ground.

The analytical work in this report has been prepared with the assistance of Messrs. M. J. Broggini, A. J. Grant, J. Barnardi, E. N. Sanders, P. S. Willand and C. B. Tibbitts.

Composition of Commercial Fertilizers Sampled and Analyzed in 1915.

MANUFACTURER AND BRAND.	NITROGEN.			PHOSPHORIC ACID.						POTASH.			
	Inorganic.	Organic.	Total.	Soluble.	Reverted.	Available.		Insoluble.	Total.		Guaranteed.		
						Found.	Guaranteed.		Found.	Guaranteed.			
ALPHANO HUMUS Co., New York City.													
Prepared Humus.....	.35	1.61	1.96	1.25	.30	.10	.40	.50	1.30	1.70	.42	.50	
AMERICAN AGRICULTURAL CHEMICAL Co., New York City.													
Bradley's Corn Phosphate.....	1.02	1.09	2.11	2.06	4.10	4.15	8.25	8.00	1.80	10.05	9.00	1.58	1.50
Bradley's Eclipse Phosphate.....	.43	.89	1.32	1.03	4.25	4.30	8.55	8.00	2.20	10.75	9.00	2.10	2.00
Bradley's Extra Complete Manure.....	2.34	1.19	3.53	3.29	6.45	4.40	10.85	10.00	.95	11.80	11.00	4.27	4.00
Bradley's Potato Fertilizer.....	.83	1.45	2.28	2.06	4.68	4.15	8.83	8.00	1.53	10.36	9.00	3.03	3.00
Bradley's Special Complete Manure for Potatoes and Vegetables	2.05	1.37	3.42	3.29	5.50	3.65	8.85	8.00	2.25	11.10	9.00	4.03	4.00
Bradley's Special Complete Manure for Top-Dressing, Grass and Grain.....	4.37	1.13	5.50	4.94	4.90	2.85	7.75	7.00	1.20	8.95	8.00	3.38	3.00
Bradley's Special English Lawn Fertilizer.....	4.11	.83	4.94	4.94	4.50	2.62	7.12	7.00	1.75	8.87	8.00	3.03	3.00
Bradley's Special Potato Manure.....	1.70	.82	2.52	2.47	5.50	2.80	8.30	8.00	1.60	9.90	9.00	3.70	3.00
Bradley's XL Super-Phosphate of Lime.....	1.27	1.20	2.47	2.47	5.05	3.96	9.01	9.00	1.65	10.66	10.00	2.01	2.00
Cleveland General Crop Fertilizer.....	.62	.63	1.25	1.03	5.80	2.50	8.30	8.00	2.35	10.65	9.00	2.10	2.00
Cleveland Potato Phosphate.....	1.15	1.11	2.26	2.06	5.40	3.40	8.80	8.00	1.90	10.70	9.00	3.10	3.00
Cumberland Potato Fertilizer.....	1.03	1.09	2.12	2.06	4.90	4.02	8.92	8.00	1.75	10.67	9.00	3.20	3.00
Cumberland Super-Phosphate.....	.71	1.35	2.06	2.06	5.35	3.23	8.58	8.00	1.80	10.38	9.00	1.53	1.50
Darling's Farm Favorite.....	.76	1.40	2.16	2.06	4.92	4.08	9.00	8.00	1.75	10.75	9.00	3.05	3.00
Darling's Special General Fertilizer.....	.37	1.00	1.37	1.03	4.25	4.32	8.57	8.00	2.15	10.72	9.00	2.08	2.00
Crocker's Ammoniated Corn Phosphate.....	.97	1.20	2.17	2.06	3.70	5.17	8.87	8.00	1.60	10.47	9.00	1.54	1.50
Crocker's New Rival Ammoniated Super-Phosphate.....	.18	1.15	1.33	1.03	4.35	4.05	8.40	8.00	2.00	10.40	9.00	2.11	2.00
Crocker's Potato, Hop, and Tobacco Fertilizer.....	1.15	1.08	2.23	2.06	5.10	3.96	9.06	8.00	.95	10.01	9.00	2.86	3.00

Crocker's Special Potato Fertilizer.....	1.40	2.05	3.45	3.29	4.70	3.98	8.68	8.00	1.75	10.43	9.00	4.20	4.00
Extra Complete Manure.....	1.80	1.58	3.38	3.23	5.45	5.00	10.45	10.00	1.90	12.35	11.00	4.14	4.00
Extra Special Grass and Garden Mixture.....	6.75	1.39	8.14	8.23	5.95	.70	6.65	6.00	1.00	7.65	7.00	3.99	4.00
Fine Ground Bone.....	.....	.....	2.64	.....	.....	.....	.....	.....	.....	24.25	22.88	.....	.....
14% Plain Super-Phosphate.....	.....	.....	.....	.....	10.15	3.85	14.00	14.00	1.10	15.10	15.00	.....	.....
Grass and Lawn Top-Dressing.....	2.51	1.55	4.06	3.91	7.90	3.40	3.06	6.46	5.00	1.00	7.46	6.00	2.02
Grass and Oats.....	.....	.....	.....	.....	7.90	3.40	11.30	11.00	1.45	12.75	12.00	2.12	2.00
Great Eastern Northern Corn Special.....	1.19	1.18	2.37	2.06	4.90	3.70	8.60	8.00	2.00	10.60	9.00	1.61	1.50
Great Eastern Potato Manure.....	.90	1.20	2.10	2.06	4.95	3.47	8.42	8.00	1.70	10.12	9.00	3.06	3.00
Great Eastern Revised General.....	.34	.74	1.08	.82	6.00	2.45	8.45	8.00	2.20	10.65	9.00	2.15	2.00
Great Eastern Special High-Grade Potato Fertilizer.....	.88	2.52	3.40	3.29	4.85	3.65	8.50	8.00	1.55	10.05	9.00	4.39	4.00
High-Grade Dried Blood.....	.....	.....	10.25	9.87	.....	.....	.....	.....	.....	.....	.....	.....	.....
9% Ground Tankage.....	.59	7.20	7.79	7.41	1.95	.....	7.08	.....	3.35	10.43	9.15	.....	.....
Nitrate of Soda.....	.....	15.16	15.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pacific Potato Special.....	.99	1.17	2.16	2.06	5.65	2.67	8.22	8.00	2.20	10.52	9.00	3.40	3.00
Packer's Union Special Gardeners' Complete Manure.....	2.03	.99	3.02	2.88	4.85	3.61	8.46	8.00	2.00	10.46	9.00	4.22	4.00
Packer's Union Special Potato Manure.....	.90	1.19	2.09	2.06	4.03	4.53	8.56	8.00	1.63	10.19	9.00	3.18	3.00
Quinnipiac Corn Manure.....	.66	1.74	2.40	2.06	5.25	3.52	8.77	8.00	1.70	10.47	9.00	1.55	1.50
Quinnipiac Potato Phosphate.....	1.23	1.25	2.48	2.06	5.70	2.95	8.65	8.00	1.95	10.60	9.00	3.24	3.00
Read's Farmers' Friend Super-Phosphate.....	1.39	.83	2.22	2.06	6.00	2.90	8.90	8.00	1.40	10.30	9.00	3.22	3.00
Read's Practical Fertilizer.....	.14	1.22	1.36	1.03	4.00	4.38	8.38	8.00	2.12	10.40	9.00	2.06	2.00
Revised Special Vegetable Guano.....	2.15	1.45	2.60	3.29	6.60	1.92	8.32	8.00	2.10	10.62	9.00	4.23	4.00
Suble Pacific Guano.....	1.19	.97	2.16	2.06	5.80	3.17	8.97	8.00	1.80	10.77	9.00	1.78	1.50
Special A. A. Potato Grower.....	1.89	1.99	3.88	3.70	5.45	6.90	12.55	10.00	2.85	15.20	11.00	3.78	4.00
Special Complete Manure for Top-Dressing.....	4.11	.87	4.98	4.94	5.20	2.25	7.45	7.00	.95	8.40	8.00	3.19	3.00
Special General Crop Grower.....	.94	.77	1.71	1.65	5.60	3.35	8.95	8.00	1.80	10.75	9.00	2.02	2.00
Special High-Grade Fertilizer.....	1.93	1.24	3.17	2.88	4.55	3.69	8.24	8.00	2.25	10.49	9.00	3.78	4.00
Special Vegetable and Potato Manure.....	.98	.99	1.97	1.65	6.20	3.90	10.10	10.00	2.50	12.60	11.00	2.04	2.00
Williams & Clark Americas Corn Phosphate.....	1.15	1.19	2.34	2.06	6.70	1.95	8.65	8.00	1.53	10.20	9.00	1.77	1.50
Williams & Clark Americas Potato Manure.....	1.24	1.07	2.31	2.06	4.82	4.16	8.98	8.00	1.45	10.43	9.00	3.05	3.00

ARMOUR FERTILIZER WORKS,
Chrome, N. J.

Armour's All Soluble.....	.87	2.01	2.88	2.88	5.05	3.00	8.05	8.00	1.45	9.50	8.50	4.44	4.00
Armour's Grain Grower.....	.78	.94	1.72	1.65	5.35	2.57	7.92	8.00	1.00	8.92	8.50	2.15	2.00
Armour's 5-8-4.....	2.79	1.51	4.30	4.11	6.15	2.64	8.79	8.00	1.33	10.12	8.50	3.34	4.00
Armour's 4-8-3.....	1.28	2.02	3.30	3.29	6.95	1.73	8.78	8.00	1.35	10.13	8.50	2.86	3.00
Armour's 10-6-3.....	3.94	2.48	6.42	6.32	5.10	2.60	7.70	6.00	1.00	8.70	8.00	3.67	3.00
Armour's 3-8-3.....	1.26	1.59	2.85	2.47	6.35	1.95	8.30	8.00	1.50	9.80	8.50	2.92	3.00

L. Frank Coe's Excelsior Potato Fertilizer Special.....	1.89	1.05	2.94	2.88	6.50	2.15	8.65	8.00	1.25	9.90	9.00	4.22	4.00
E. Frank Coe's Famous Prize Brand Grass and Grain Fertilizer	...	...	...	...	7.50	2.53	10.03	10.00	1.60	11.63	11.00	2.19	2.00
E. Frank Coe's New Englander Special Revised.....	.39	.79	1.13	.82	6.10	3.03	9.13	9.00	2.05	11.18	10.00	2.16	2.00
E. Frank Coe's XXV Ammoniated Phosphate.....	.47	.63	1.09	.82	5.30	3.05	8.35	8.00	2.35	10.70	9.00	2.94	2.00
ESSEX FERTILIZER Co., Boston, Mass.													
Essex Complete Manure for Corn, Grain and Grass.....	1.91	1.65	3.56	3.28	6.35	2.35	8.70	8.00	1.35	10.05	9.00	4.13	4.00
Essex Complete Manure for Potatoes, Roots, and Vegetables, 4-8-4.....	1.88	1.43	3.31	3.28	6.65	1.58	8.23	8.00	1.37	9.60	9.00	4.07	4.00
Essex Ground Bone.....	...	...	2.94	2.46	...	...	...	...	...	27.08	23.00	...	...
Essex Market Garden and Potato Manure.....	.98	1.28	2.26	2.00	6.33	2.32	8.65	8.00	1.20	9.85	9.00	4.00	4.00
Essex XXX Fish and Potash for All Crops, 2½-8-3.....	.96	1.35	2.31	2.00	5.90	2.80	8.70	8.00	1.65	10.35	9.00	3.55	3.00
W. R. GRACE, New York City.													
Nitrate of Soda.....	...	...	15.03	...	...	...	...	...	...	...	...	...	...
HUMPHREYS GODWIN Co., Memphis, Tenn.													
Dixie Brand Cottonseed Meal.....	...	...	6.72	...	...	...	...	...	...	...	...	...	...
INTERNATIONAL AGRICULTURAL CORP., Buffalo, N. Y.													
Buffalo Farmers' Choice.....	.28	.99	1.27	.80	6.50	2.97	9.47	10.00	1.50	10.97	11.00	2.43	2.00
Buffalo 3-8-4.....	2.07	1.66	3.73	4.10	8.65	1.30	9.95	8.00	1.80	11.75	9.00	4.03	4.00
Buffalo High Grade Manure.....	.94	2.53	3.47	3.30	7.60	2.65	10.25	8.00	1.50	11.75	9.00	3.35	3.00
Buffalo New England Special.....	1.43	.34	1.77	1.60	7.10	3.58	10.68	9.00	1.27	11.95	10.00	2.97	2.00
Buffalo 1-8-2.....	.14	.98	1.12	.80	5.87	3.70	9.57	8.00	1.90	11.47	9.00	2.17	2.00
Buffalo 3-8-4.....	1.16	1.00	2.52	2.40	5.50	3.65	9.15	8.00	1.12	10.27	9.00	2.69	4.00
Buffalo Trade Dresser.....	3.50	1.73	5.23	5.80	5.85	1.45	7.30	6.00	1.10	8.40	7.00	2.19	2.00
Buffalo Vegetable and Potato.....	1.84	.57	2.41	2.40	6.40	2.30	8.70	8.00	.80	9.50	9.00	3.00	3.00
LESTER'S AGRICULTURAL CHEMICAL Co., Newark, N. J.													
Lester's Bone Meal.....	...	...	2.59	2.67	...	...	...	...	...	23.10	22.88	...	...
Lester's Grain and Grass Fertilizer.....	...	...	...	...	7.35	3.30	10.65	10.00	...	11.65	11.00	2.32	2.00
Lester's Revised Corn and Potato Fertilizer.....	.84	.84	1.68	1.65	4.35	4.20	8.55	8.00	1.83	10.38	9.00	2.91	2.00

OLDS & WHIPPLE,
Hartford, Conn.

Complete Corn and Potato Fertilizer.....	1.79	1.61	3.40	3.30	3.80	4.15	7.95	6.00	2.20	10.15	6.00	4.16	3.00
Complete Tobacco Fertilizer.....	.90	3.95	4.85	4.50	1.23	1.80	3.03	3.00	.70	3.73	3.00	3.52	3.00
High-Grade Potato Fertilizer.....	1.57	2.37	3.94	3.30	5.70	2.40	8.10	6.00	1.70	9.80	6.00	5.08	4.00
Nitrate of Soda.....	.....	.....	15.57	15.00	.....	.....	.....	.....	.....	.....	.....	.....	.....
Special Home Mixture.....	3.22	6.18	9.40	9.00	1.10	1.55	2.65	.....	.85	3.50	.....	.59	.....

PARMENTER & POLSEY Co.,
Boston, Mass.

P. & P. Corn and Grain Fertilizer.....	.13	.88	1.01	.82	6.75	1.05	7.80	8.00	1.50	9.30	9.00	3.71	3.00
P. & P. Plymouth Rock Brand for all Crops, 3-8-3.....	1.29	1.19	2.48	2.46	6.60	1.43	8.03	8.00	1.35	9.38	9.00	3.32	3.00
P. & P. Potato Fertilizer, 2-8-3.....	.90	.92	1.82	1.64	7.40	.63	8.03	8.00	1.50	9.53	9.00	3.42	3.00
P. & P. Special Potato Fertilizer for Potato and Root Crops, 4-8-4.....	1.97	1.47	3.44	3.28	5.95	2.13	8.08	8.00	1.40	9.48	9.00	4.01	4.00

J. W. SANBORN,
Gilmanton, N. H.

Prof. Sanborn's Chemical Fertilizer for use in the Hill and Drill.....	1.86	.91	2.77	2.47	7.45	1.75	9.20	8.00	1.40	10.60	9.00	3.12	3.00
Prof. Sanborn's Chemical Fertilizer, Grass and Grain.....	4.05	.89	4.94	4.94	7.40	2.18	9.58	8.00	1.35	10.93	9.00	3.11	3.00
Prof. Sanborn's Chemical Fertilizer for Potatoes and Corn.....	2.77	.78	3.55	3.29	6.85	2.55	9.40	8.00	1.00	10.40	9.00	4.08	4.00

FRANK SMITH & Co.,
Lancaster, N. H.

Frank Smith & Co.'s Seeding Grain and Corn Mixture.....	3.89	.16	4.05	.....	6.90	3.28	10.18	11.00	1.10	11.28	.....	.....	.....
Frank Smith & Co.'s Top-Dressing for Grass.....	5.22	.08	6.40	5.52	6.10	1.45	7.35	9.00	1.10	8.65	.....	.....	.....

THE LOWELL FERTILIZER Co.,
Boston, Mass.

Acid Phosphate.....	.....	.....	.....	.....	11.40	2.70	14.10	14.00	1.20	15.30	15.00	.....	.....
Lowell Acid Phosphate.....	.....	.....	.....	.....	10.00	3.02	13.02	12.00	1.30	14.32	14.00	.....	.....
Lowell Animal Brand for All Crops.....	1.21	2.25	3.46	2.46	7.15	2.12	9.27	8.00	1.40	10.67	9.00	3.27	3.00
Lowell Bone Fertilizer for Corn, Grain, Grass and Vege- tables, 2-8-3.....	1.06	.80	1.86	1.64	5.70	2.75	8.45	8.00	1.40	9.85	9.00	3.12	3.00
Lowell Cereal Fertilizer, 1-7-1.....	.34	.51	.85	.82	5.30	1.88	7.80	7.00	1.15	8.33	8.00	1.23	1.00
Lowell Complete Grass for Top-Dressing and Seeding, 8-7-4.....	3.53	2.80	6.33	6.50	6.20	1.50	7.70	7.00	1.20	8.90	8.00	4.59	4.00

Composition of Commercial Fertilizers Sampled and Analyzed in 1915.—Continued.

MANUFACTURER AND BRAND.	NITROGEN.			PHOSPHORIC ACID.					POTASH.				
	Inorganic.	Organic.	Total.	Soluble.	Reverted.	Available.		Insoluble.	Total.				
						Found.	Guaran- teed.		Found.	Guaran- teed.			
Lowell Corn and Vegetable, 4-8-4.....	1.89	1.57	3.46	3.28	6.70	1.35	8.05	8.00	1.35	9.40	9.00	4.05	4.00
Lowell Dissolved Bone and Potash, 2-9-2.....	.92	1.09	2.01	1.64	7.60	2.05	9.65	9.00	1.65	11.30	10.00	2.63	2.00
Lowell Empress Brand for Corn, Potatoes and Grain, 1½-7-2	.62	.75	1.37	1.24	6.45	1.20	7.65	7.00	1.30	8.95	8.00	2.37	2.00
Lowell Grass Mixture for Top-Dressing and Lawns.....	2.61	1.49	4.10	4.10	7.55	1.34	8.89	8.00	.88	9.77	9.00	4.17	4.00
Lowell Ground Bone.....			2.67	2.46						24.00	23.00		
Lowell Lawn Dressing, 5-8-4.....	1.01	.19	4.23	4.10	7.50	.57	8.07	8.00	1.20	9.27	9.00	4.34	4.00
Lowell Potato Grower, 4-8-4.....	1.21	2.07	3.28	3.28	7.65	.75	8.40	8.00	1.40	9.80	9.00	4.26	4.00
Lowell Potato Manure.....	.99	.68	1.67	1.64	6.40	.85	7.25	7.00	.90	8.15	8.00	4.20	4.00
Lowell Potato Phosphate.....	1.01	1.51	2.52	2.46	7.00	1.60	8.60	8.00	.70	9.30	9.00	4.02	4.00
Lowell Seeding Down Fertilizer, 3-8-4.....	1.00	1.46	2.46	2.46	7.10	2.57	9.67	8.00	1.10	11.07	9.00	4.24	4.00
Lowell Sterling Phosphate, 1-8-3.....	.08	.80	.88	.82	6.00	1.75	7.75	8.00	1.50	9.25	9.00	3.16	3.00
9-20 Ground Tankage.....	.56	6.32	6.88	7.41	1.10	9.57	10.67	9.15	3.35	14.02			
Nitrate of Soda.....			15.38	15.00									
6-30 Ground Tankage.....	1.80	3.65	5.45	5.00	1.10	13.55	14.65	14.00	5.65	20.30			
THE MILLER FERTILIZER CO., Baltimore, Md.													
14% Acid Phosphate.....					9.15	4.85	14.00	14.00	1.50	15.50			
THE NEW MINERAL FERTILIZER CO., Boston, Mass.													
New Mineral Plant Food.....			.10						.78	.80		.05	

THE NATIONAL FERTILIZER Co., Boston, Mass.												
National Ammoniated Bone Phosphate.....	.91	1.81	1.65	6.10	3.15	9.25	8.00	1.30	10.55	9.00	2.07	2.00
National Special Complete Grass Fertilizer.....	2.86	1.29	4.15	4.11	2.57	9.27	9.00	1.50	10.77	10.00	3.94	4.00
National Special Eureka Potato Fertilizer.....	2.05	1.07	3.12	2.88	6.80	1.90	8.70	8.00	1.90	10.60	9.00	3.98
National Special Potato Phosphate.....	1.46	.73	2.19	2.06	6.40	2.03	8.43	8.00	1.60	10.03	9.00	3.26
THE ROGERS & HUBBARD Co., Middletown, Conn.												
All Soils All Crops Phosphate.....	2.70	.70	3.40	3.30	6.10	2.60	8.70	8.00	1.95	10.65	9.00	2.86
Complete Phosphate.....	.46	1.08	1.54	1.50	3.40	3.77	7.17	7.00	2.65	9.82	8.00	1.66
For Seeding Down and Fruit.....	.38	1.94	2.32	2.20	1.35	11.25	12.60	....	5.50	18.10	16.00	4.01
Oats and Top-Dressing.....	7.48	1.08	8.56	8.50	.20	6.95	7.15	....	1.70	8.85	8.00	4.33
Potato Phosphate.....	1.08	1.16	2.24	2.00	4.00	4.38	8.38	9.00	3.30	11.68	10.00	2.43
Soluble Corn and General Crops Manure.....	1.71	1.27	2.38	2.50	3.00	4.43	7.43	6.00	1.90	9.33	8.00	3.16
Soluble Potato Manure.....	3.29	1.91	5.20	5.00	1.60	7.02	8.62	7.00	2.60	11.22	10.00	2.22
Soluble Tobacco Manure.....	2.80	2.19	4.99	5.00	1.70	6.55	8.25	7.00	3.25	11.50	10.00	3.52
WHITMAN & PRATT RENDERING Co., Chelmsford, Mass.												
Ground Bone.....	.49	2.51	3.00	2.45	....	....	....	....	....	27.04	25.00	....



